



CDC approach to interoperability for data exchange with public health laboratories

Public Health Information Network
Stakeholders Conference

Atlanta, Georgia

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Health Information progress since May 2003



- eGov Consolidated Health Informatics adopts government wide interoperability standards:
 - ◆ HL7 messaging standards
 - ◆ LOINC—lab test identifiers
 - ◆ SNOMED—lab result content
 - ◆ EPA's Substance Registry System
- Government license for SNOMED made available 4/2004
- Proposed HL7 standard for Electronic Health Record

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PHIN use of eGov Standards for laboratory information



- HL7 2.x public health lab message
 - ◆ NEDSS Base System
 - ◆ LRN application
- HL 7 compatible logical data model
- HL7 Version 3.0 Public Health Notification messages
- LOINC, SNOMED
- Participation with PH partners in Standards Development Organizations

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Public Health Information Network Messaging System (PHIN-MS)



Software for industry standards based inter-institutional message transport available from CDC

- ◆ **ebXML “handshake”, PKI encryption and security**
- ◆ **Payload agnostic (HL-7, text file, etc)**
- ◆ **Bi-directional data exchange**

PHIN-MS in use by state and local partners for point to point messaging (ED and lab to state; state to CDC)

Several commercial systems incorporating PHIN MS

- laboratory information management system**
- integration broker**

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